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16 August 1988

MEMORANDUM FOR: Comptroller

FROM: R. M. Huffstutler  
Deputy Director for Administration

SUBJECT: CAMS Extension Initiative, Unfunded Requirement

1. This confirms our urgent requirement for \$3.9 million in FY 1989 funding to extend the operating life of the COMIREX Automated Management System (CAMS) until its replacement--the Community Requirements Management System (RMS)--reaches its Initial Operating Capability (IOC) in 1995, two years later than originally scheduled. We forwarded a "CAMS Extension" initiative with our 1990/91 Budget Estimate submission, but we must begin work as early as possible in FY 1989 to minimize the risk of serious prolonged outages.

2. In response to your 12 August request, The Office of Information Technology (OIT) has reviewed its proposed funding profile to determine what costs could be deferred to 1990. They could defer \$ .6 million for hardware procurements--workstations and related communications equipment--but emphasize the risk of not having the equipment available when needed. I believe we should seek the entire \$3.9 million for the following:




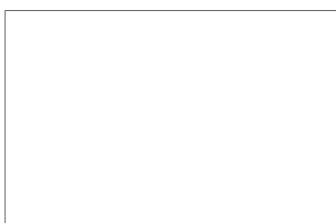
- \$.2 million to complete a CAMS conversion study.
- \$2.9 million to initiate efforts to modify the existing CAMS software and develop new hardware interfaces.
- \$.6 million for workstations and related communications equipment.
- \$.2 million to upgrade central processing capacity to support the new generation of workstations and process increased volumes of data from new collections systems.

The new "CAMS Extension" funding profile of \$15.1 million through 1994 will be used to continue software modification efforts, acquire replacement workstations and upgrade central processing capacity.

3. We look to you to determine the best method--National Reconnaissance Program funding, Agency-wide reprogramming, reserve release--to obtain the needed funds. Attached is a summary of background information. Our Management Staff will continue to work with OIT to provide you with any other necessary data.

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R. M. Huffstutler  
  
  


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## CAMS Extension Background

The current hardware and software architecture for the CAMS Processing Segment is adequate to meet existing customer needs into the early 1990s. However, expected growth in customer demands and the delay in the arrival of RMS have given rise to a new set of hardware and software requirements:

- Additional customer requirements mean that we will have to increase the size of the IBM mainframe computers that are at the core of the CAMS system. These larger mainframes do not use the VM/SP operating system that provides the foundation for CAMS. Hence, we must acquire and install the new operating system (VM/XA) along with the more powerful mainframes.
- Installation of VM/XA will require us to rewrite much of the CAMS software. It will also require significant changes in the GIMS-III data base management system that is central to CAMS.
- Continuation of CAMS services until at least 1995, and perhaps longer if the delivery of the first version of RMS slips, will necessitate replacement of the existing stock of Delta Data terminals that are used on CAMS. These terminals will not last another seven or more years and must be replaced -- preferably with the new ITC workstations that will become standard in other Agency-supported computer systems.
- Along with the new workstations must come new network controllers (replacing COMTENS with industry-standard IBM controllers) and software changes to accommodate the 3270 communications protocol that is used on the new workstations.

Additional mainframe capacity, new workstations and network controllers, and associated software upgrades will maintain CAMS performance in the face of increasing imagery requirements and expanded collection system capabilities planned for the early 1990s.

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